

USER MANUAL

MANUAL DEL UTILIZADOR

MODELS / MODELOS

DHD 200-30

DHD 200-30 W

ENGLISH

ESPAÑOL

FRANÇAISE

DEUTSCH

PORTUGUÊS

ITALIANO

ΕΛΛΗΝΙΚΑ

DANSK

NEDERLANDS

POLSKI

PYCCKO

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INTRODUCTION

Thank you for purchasing a 'DHD' ICE DISPENSER by ITV ICE MAKERS. You have purchased one of the most reliable machines on the market today.

Carefully read the instructions contained in this manual since they provide important information relative to safety during installation, use, and maintenance.

WARNING

The installation of this equipment should be performed by a qualified technician.

The electrical socket should always be placed in an accessible location.

Always disconnect the power supply from the machine before any cleaning or maintenance service.

Any change required on the electrical installation for the appropriate connection of the machine, should be exclusively performed by qualified and certified professional personnel only.

This machine does not produce ice by itself; it must be used in combination with an ice maker.

Any use of the machine not intended to dispense ice, is considered inappropriate.

It is extremely dangerous to modify or intend to modify this machine, and will void the warranty.

This machine should not be used by children or handicapped without proper supervision and monitoring.

This machine is not intended to be used outdoors nor exposed to the rain, or similar elements.

The machine should be connected using the power cord supplied with the equipment.

It is mandatory to ground the equipment to avoid possible electric shock to individuals or damages to the equipment. The machine should be grounded pursuant to local and/or national regulations as the case may be.

The manufacturer shall be held harmless in case of damages arising due to the lack of the ground installation.

In order to assure the proper operation and efficiency of this equipment, it is of paramount importance to follow the recommendations of the manufacturer, especially those related to cleaning and maintenance operations, which should be performed by qualified personnel only.

CAUTION: The intervention of non-qualified personnel, apart from being dangerous, could result in serious malfunctioning. In case of damages, contact your distributor. We recommend always using original spare parts.

ITV Ice Makers reserves the right to make changes in specifications and design without prior notice.

UPON RECEIPT OF THE MACHINE

Inspect the outside packing. In case of damages, make the corresponding claim to the carrier. To confirm the existence of damages, unpack the machine in the presence of the carrier and state any damage on the equipment on the reception document or freight document.

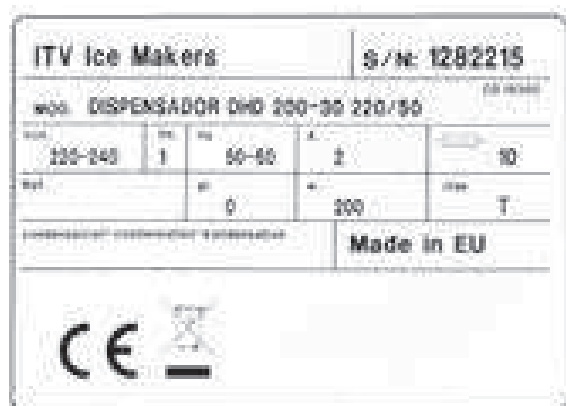
Always state the machine serial number and model number. This number is printed in three locations:

(1) Packing: On the outside, it contains a label with the manufacturing number.



(2) Exterior of the equipment: On the back of the equipment, there appears a label with the same characteristics as the previous one.

(3) Nameplate: On the back of the machine.



Check that located in the interior of the machine that the installation kit is complete and comprises:

- Drain hose
- Four legs
- User manual.
- Warranty and serial number

CAUTION: All packing elements (plastic bags, carton boxes and wood pallets) should be kept outside the reach of children, as they are a source of potential hazard.

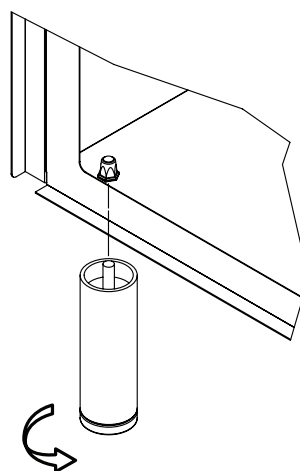
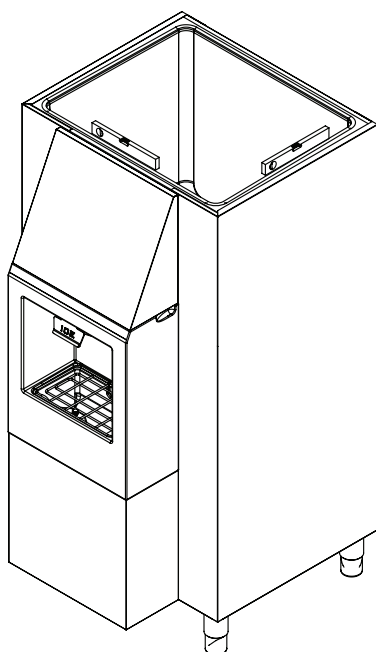
INSTALLATION

I. LOCATION OF THE MACHINE

This ice dispenser is not designed for outdoor operation. The icemaker should not be located next to ovens, grills or other high heat producing equipment.

2. LEVELING THE MACHINE

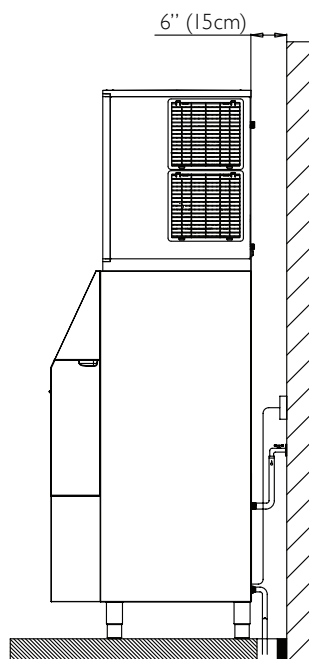
Screw the leveling legs onto the bottom of the ice dispenser and tighten as far as possible. Use a level on top of the machine. Turn each foot as necessary to level the ice dispenser.



3. MINIMUM DISTANCE TO OBSTACLES

The ice dispenser may be installed against a wall or recessed. Refer to the minimum clearances recommended in the manual of the ice machine, for efficient operation and servicing.

Note that, the location must allow enough clearance for electrical, drain and (in DHD 200-30 W models) water connections in the rear of the ice dispenser.



4. WATER SUPPLY (ONLY DHD 200-30 W MODELS)

The quality of the water supplied to the machine will have an impact on the time between cleanings and ultimately on the life of the product. It also will have a remarkable influence on the appearance, hardness and flavor of the ice and the water.

Local water conditions may require treatment of the water to inhibit scale formation, improve taste and clarity. If you are installing a water filter system, refer to the installation instructions supplied with the filter system.

Connect the machine only to potable water supply.

Use a flexible food grade hose.

Pressure should be between 10 and 85 psi (0.7 and 6 bar). If pressure overpasses such values, install a pressure regulator.

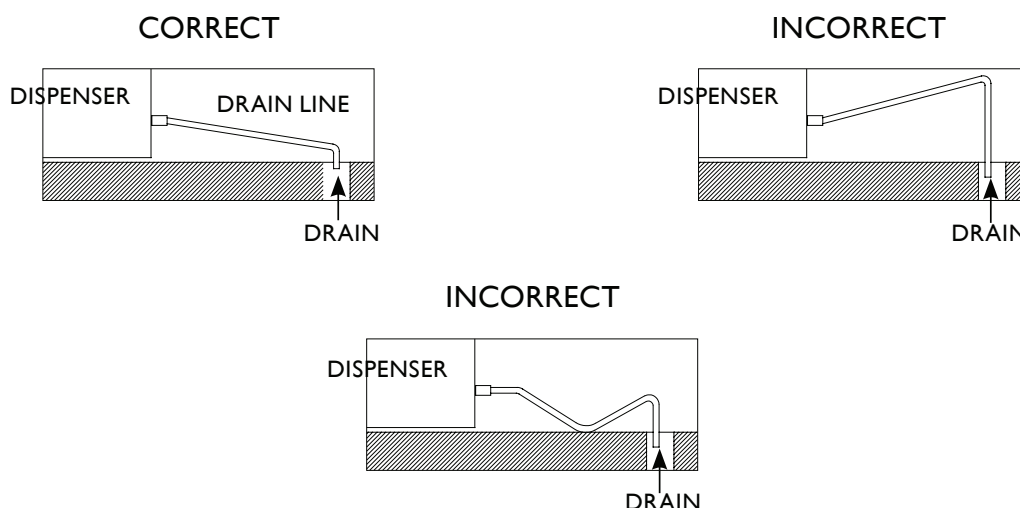
ATTENTION: The machine shall be plumbed with adequate backflow protection, according to applicable federal, state and local regulations.

Please note that a water filtration system is highly recommended for use with the ice maker atop the dispenser and if the ice maker is an ITV brand, it is mandatory under provisions of the in ice maker warranty.

5. DRAINAGE

Drainage should be located lower than the output of the machine, at 5.9" (150mm) minimum.

It is convenient that the drain hose is 1.18" (30mm) inside diameter and with a minimum gradient of 0.36"/ft (3cm/m), see figure.



6. ELECTRICAL CONNECTION

It is mandatory to ground the equipment. To avoid possible electric shock to individuals or damages to the equipment, the machine should be grounded pursuant to local and/or national regulations as the case may be.

The manufacturer shall be held harmless in case of damages arising due to the lack of the ground installation.

In case the supply cable is damaged, it should be replaced by a cable or special assembly to be furnished by the manufacturer or after-sales service. Such replacement should be performed by qualified technical service only.

The machine should be placed in such a way as to allow a minimum space between the back and the wall to allow an easy access and without risks to the cable plug.

Regarding the electrical socket, Please allow ample room to install adequate switches and fuses.

Voltage is indicated in the nameplate and on the technical specifications of this manual. Variation in voltage above the 10% stated on the nameplate could result in damages or prevent the machine start-up.

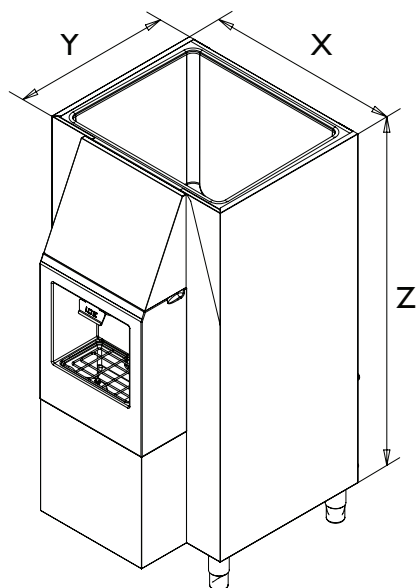
MODELS	VOLTAGE FREQUENCY PHASE	TOTAL AMPS	MAXIMUM FUSE CIRCUIT BREAKER	POWER CORD	NEMA
		(A)	(A)		
DHD 200-30 115/60	115 / 60Hz / 1Ph	1.8	15	3AWG16	5-15P
DHD 200-30 W 115/60	115 / 60Hz / 1Ph	1.8	15	3AWG16	5-15P
DHD200-30 220/50	220V / 50Hz / 1Ph	0.9	10	-	-
DHD200-30 W 220/50	220V / 50Hz / 1Ph	0.9	10	-	-

7. INSTALLATION OF ICE MAKERS ON THE DISPENSER

When installing a modular ice maker on the ice dispenser, follow the instructions provided in its manual.

TECHNICAL SPECIFICATIONS

Dimensions



MODELS	WEIGHT	DIMENSIONS				PACKAGING DIMENSIONS		
	lbs. / Kg.	inch / mm.				inch / mm.		
		WIDTH X	DEPTH Y	HEIGHT Z	HEIGHT Z (legged)	WIDTH X	DEPTH Y	HEIGHT Z
DHD 200-30 115/60	192lbs./ 87Kg.	30.3" / 769mm.	32.9" / 835mm.	54.5" / 1383mm.	60.5" / 1537mm.	32.3" / 820mm.	35" / 890mm.	59.1" / 1500mm.
DHD 200-30 W 115/60								
DHD200-30 220/50								
DHD200-30 W 220/50								

START UP

I. VERIFY THE FOLLOWING

- Is the machine leveled?
- Voltage and frequency are the same as those on the nameplate?
- Are the drains connected and operating?
- Is water pressure appropriate?

MINIMUM	10 psi (0,7 Bar)
MAXIMUM	85 psi (6 Bar)

NOTE: In case inlet water pressure is higher than 85 psi (6 bar), install a pressure regulator.

2. START-UP

Once the installation instructions have been followed, proceed as follows:

- 1) Open the water inlet (only DHD 200-30 W models). Verify the absence of leakages.
- 2) Connect the machine to the power supply.
- 3) Press the water dispenser button (only DHD 2000-30 W models), and verify it is dispensed properly.
- 4) Press the ice dispenser button, and on the inside of the bin, verify that the agitator and the paddle wheel rotate smoothly and without friction.
- 5) Place the ice machine on the dispenser, following its instructions.

SEQUENCE OF OPERATION

I. DISPENSING ICE

The ice falls into the bin from the ice maker. Then it is stored until the user presses the ice dispensing button. This opens the trapdoor that allows the ice cubes to drop; meanwhile the gear motor rotates the paddle wheel which raises the ice cubes until they fall through the chute. The agitator rotates with the paddle wheel, cutting up the ice blocks.

When the user releases the button, the trapdoor closes and the gear motor stops.

The bin is thermally insulated and keeps the ice in perfect condition for a long period of time. Despite this, to prevent the ice from forming blocks if it is not dispensed during a determined interval, the gear motor rotates the paddle wheel and the agitator during a short while automatically, without any user action. As the trapdoor remains closed, no unintentional “ghost ice” is produced. The duration and interval of this automatic rotation can be modified (see chapter 7.5).

2. WATER DISPENSING (ONLY DHD 200-30 W MODELS)

When the user presses the water dispensing button, an electro valve allows it to flow, at the correct supply pressure and temperature.

The water or ice lost during dispensing operations through the front grid, as well as the melt water from the ice bin, are collected by the drain bin, where they are conducted out of the machine through the drain pipe. **CAUTION:** Never try to reuse the ice or water contained in the drain bin. To access it for cleaning or maintenance purposes, see chapter 7.

MAINTENANCE AND CLEANING PROCEDURES

I. CLEANING

It is the user's responsibility to keep the ice machine and ice storage bin in a sanitary condition.

For the disassembly and cleaning of the ice maker, refer to its specific manual.

Sanitize the ice dispenser as frequently as local health codes require, and every time the ice machine is cleaned and sanitized

To empty the ice that may remain in the bin, you can either do it manually or by pressing the ice dispensing button and waiting until all the ice falls through the ice chute. If you choose the second option, note that the gear motor has been designed for intermittent use, so a long, continuous use may provoke its overheating, resulting in work stoppage. Should this happen, please let it cool for some time, after which it will work again normally.

For the cleaning of the lime, prepare a solution of an appropriate product for the cleaning of ice machines. Do not use hydrochloric acid. We recommend the use of any NSF approved scale removal product prepared according to the manufacturer's instructions

For sanitization, mix a solution of sanitizer using sodium hypochlorite food equipment sanitizer to form a solution with 100 - 200 ppm free chlorine yield. Below is an example to calculate the proper quantity of sanitizer to add to the water, for household bleach 12.5%.

$$\text{Bleach to add} \rightarrow \frac{15}{\% \text{ dis}} = \frac{15}{12.5} = 1.2 \text{ gr/L} \rightarrow *0.133 = 0.16 \text{ oz/gal}$$

Rinse thoroughly with water after each operation.

CAUTION: Do not mix ice machine cleaner and sanitizer solutions together.

WARNING: Wear rubber gloves and safety goggles when handling ice machine cleaner or sanitizer.

WARNING: Unit must always be disconnected during maintenance/cleaning procedures. The machine may start rotating at any moment without user's action, creating a risk.

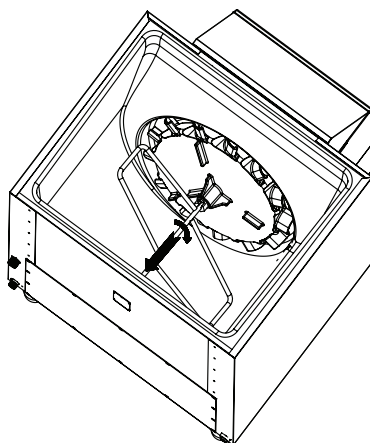
Clean the outside of the machine as often as necessary to maintain cleanliness, with mild soap and water. Wipe dry with a clean soft cloth. Stainless steel parts can be cleaned with specific products, take care especially to not touch the plastic parts.

2. AGITATOR AND PADDLE WHEEL DISASSEMBLY

Keeping the wheel still, rotate the agitator CW, and then push it opposite to the wheel until the end becomes free. Afterwards pull the agitator to release the opposite side. Once the agitator is disassembled, the wheel can be easily extracted from its location.

Proceed in reverse to mount it again.

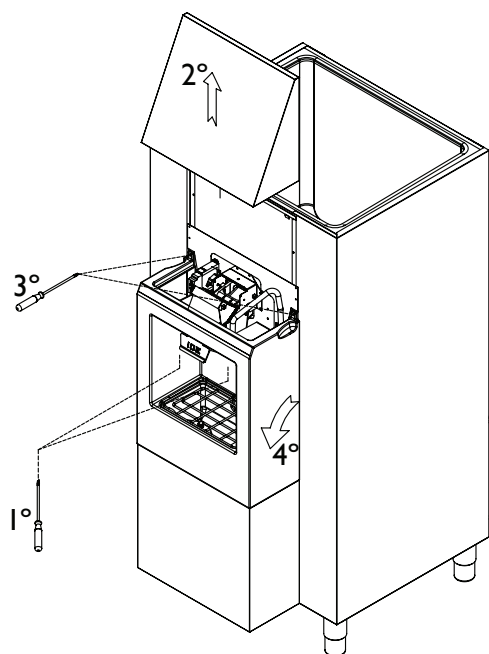
CAUTION: Do not force or lever up the agitator or the wheel during these operations.



3. FRONT PANELS DISASSEMBLY

To access the dispensing mechanisms, the automatic agitation timer or the drain bin, it is necessary to disassemble the front panels.

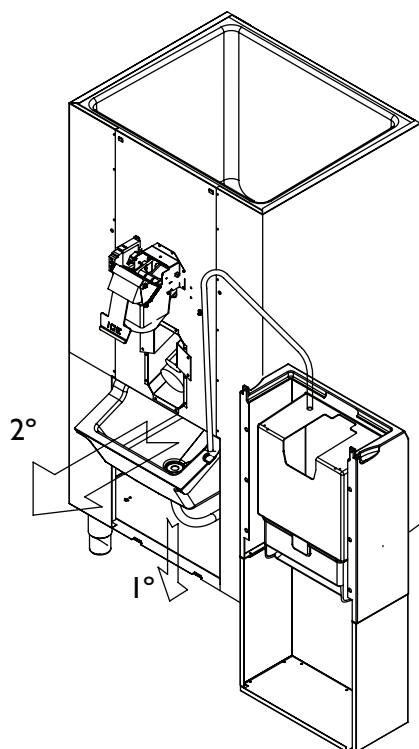
Start by disassembling the upper front panel, by unscrewing the 2 Phillips screws located in the inside of the plastic front panel (see figure). Once removed, slide the panel upwards to remove it completely.



The rest of the panels form a unique block. First unplug all the connections of the electrical parts that are mounted on it (LED light, water button, etc...), then unscrew the 2 screws (see figure). The block can be removed by tipping it slightly and extracting it upwards, to release it from the 2 bottom tabs.

4. DRAIN BIN DISASSEMBLY

First, disassemble the front panels as shown in chapter 7.3. Following this, remove the plastic flange of the drain pipe. Then the drain bin can be extracted by pulling it.

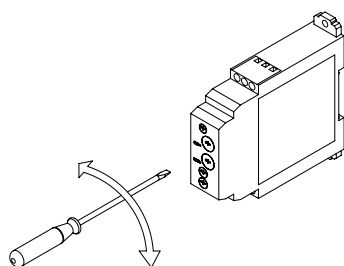


5. ADJUSTING THE AUTOMATIC AGITATION TIMER

Disassemble the front panels as shown in chapter 7.3. Then you can access the electronic timer that regulates this function. The adjusting of this device must be performed only by qualified personal. The factory setting is 6 seconds agitation each 3 hours.

The big OFF wheel regulates the interval between automatic agitations. The small OFF wheel sets the pitch for the big wheel adjust.

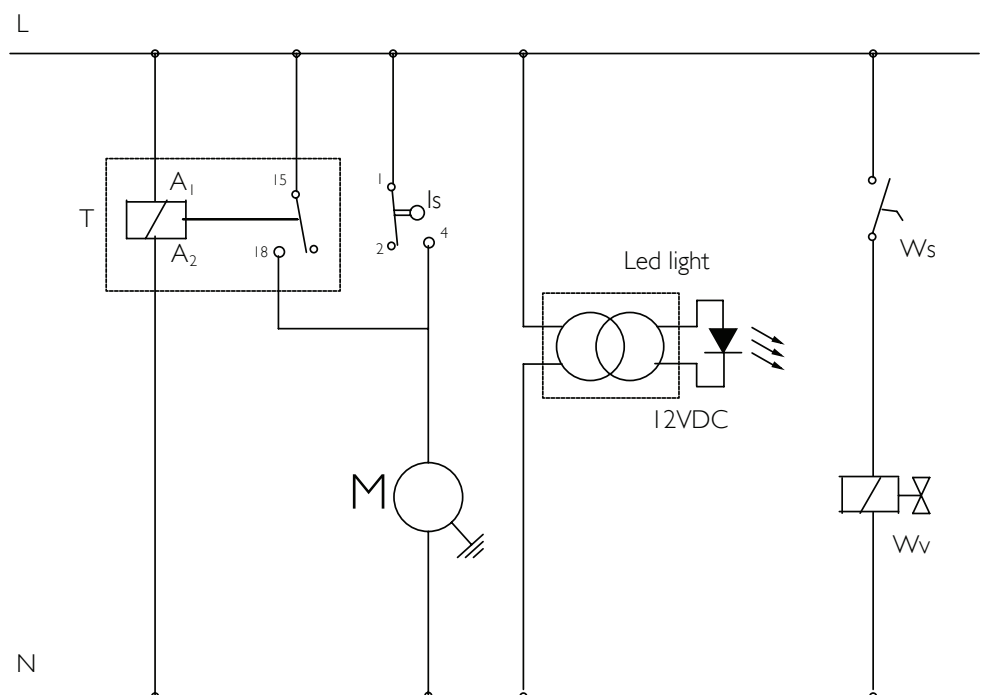
The big ON wheel regulates the duration of the agitation. The small ON wheel sets the pitch for the big wheel adjust.



USER TROUBLESHOOTING GUIDE

PROBLEM	PROBABLE CAUSE	SOLUTION
The ice dispenser does not work.	Electrical power failure.	Verify that the machines is plugged. Check that the power cord is not broken. Check the socket and the fuse.
	After a continuous use the gear motor has overheated.	Wait until it cools and try again.
The ice dispenser seems to work but no ice is dispensed.	There is not enough ice in the bin.	Check the ice maker.
	Agitator or paddle wheel are not properly mounted.	See chapter 7 for a proper assembly of these components.
The ice dispenser works irregularly or a tapping is heard.	The ice in the bin has formed blocks.	Remove blocks of ice. If necessary, lower the automatic agitation interval (see chapter 7). Check the ice-maker to reduce the thickness of the ice.
	The shape or size of the ice in the bin is not appropriate.	Remove improper ice.
No water is dispensed (only for DHD 200-30 W models).	Water supply failure.	Verify the water faucet is open. Check the water supply connection.
Water leaks.	The drain bin is stuck and has overfilled.	Disassemble the drain bin as described in chapter 7, empty and clean it. Check the drain bin hose.
	Main drain hose is stuck.	Check the drain hose. Verify that it is installed according to chapter 3.
	Water hose is broken (only DHD 200-30 W).	Disassemble the front panels as indicated in chapter 7 and check the water hose.
For further problems call warranty service		

WIRING DIAGRAM



45-40

COMPONENTS:

M	Gear motor wheel and agitator
T	Timer
Is	Ice dispensing switch
Ws	Water dispensing switch (only DHD 200-30 W models)
Wv	Water electro valve (only DHD 200-30 W models)